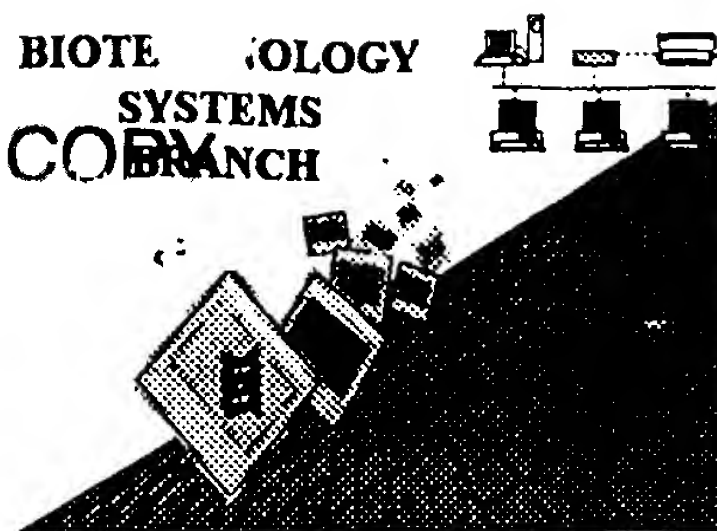


BEST AVAILABLE COPY
RAW SEQUENCE LISTING
ERROR REPORT

BEST AVAILABLE COPY

BIOTECHNOLOGY
SYSTEMS
BRANCH



0400
03/13/01

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/785,632

Source: OIP

Date Processed by STIC: 3/12/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/785,632

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) 166 (maybe more) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence..
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
"file," resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/785,632

DATE: 03/12/2001
TIME: 12:50:55

Input Set : A:\12279-002001.TXT
Output Set: N:\CRF3\03122001\I785632.raw

**Does Not Comply
Corrected Diskette Needed**

4 <110> APPLICANT: Kim, Jin-Soo
5 Kwon, Young Do
6 Kim, Hyun-Won
7 Ryu, Eun-Hyun
8 Hwang, Moon-Sun
10 <120> TITLE OF INVENTION: ZINC FINGER DOMAINS AND METHODS OF
11 IDENTIFYING SAME
13 <130> FILE REFERENCE: 12279-002001
OK 15 <140> CURRENT APPLICATION NUMBER: US/09/785,632
15 <141> CURRENT FILING DATE: 2001-02-16
15 <160> NUMBER OF SEQ ID NOS: 166
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

1297 <210> SEQ ID NO: 77
1298 <211> LENGTH: 24
1299 <212> TYPE: PRT
1300 <213> ORGANISM: Artificial Sequence
1302 <220> FEATURE:
1303 <223> OTHER INFORMATION: polypeptide motif
1305 <221> NAME/KEY: VARIANT
1306 <222> LOCATION: 1
1307 <223> OTHER INFORMATION: Xaa = Leu, Ile, Val, Met, Phe, Tyr, or Gly
1309 <221> NAME/KEY: VARIANT
1310 <222> LOCATION: 2
1311 <223> OTHER INFORMATION: Xaa = Ala, Ser, Leu, Val, or Arg
1313 <221> NAME/KEY: VARIANT
1314 <222> LOCATION: 3-4, 6, 8-11, 17, 19-23
1315 <223> OTHER INFORMATION: Xaa = any amino acid
1317 <221> NAME/KEY: VARIANT
1318 <222> LOCATION: 5
1319 <223> OTHER INFORMATION: Xaa = Leu, Ile, Val, Met, Ser, Thr, Ala, Cys, or
E--> 1320 Asn
1322 Asn
1322 <221> NAME/KEY: VARIANT
1323 <222> LOCATION: 7
1324 <223> OTHER INFORMATION: Xaa = Leu, Ile, Val, or Met
1326 <221> NAME/KEY: VARIANT
1327 <222> LOCATION: (12)...(12)
1328 <223> OTHER INFORMATION: Xaa = Leu, Ile, or Val
1330 <221> NAME/KEY: VARIANT
1331 <222> LOCATION: (13)...(13)
1332 <223> OTHER INFORMATION: Xaa = Arg, Lys, Asn, Gln, Glu, Ser, Thr, Ala, Ile,
1333 or Tyr
1335 <221> NAME/KEY: VARIANT

move Asn up

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/785,632

DATE: 03/12/2001
TIME: 12:50:56

Input Set : A:\12279-002001.TXT
Output Set: N:\CRF3\03122001\I785632.raw

1336 <222> LOCATION: (14)...(14)
1337 <223> OTHER INFORMATION: Xaa = Leu, Ile, Val, Phe, Ser, Thr, Asn, Lys, or
1338 His
1340 <221> NAME/KEY: VARIANT
1341 <222> LOCATION: (16)...(16)
1342 <223> OTHER INFORMATION: Xaa = Phe, Tyr, Val, or Cys
1344 <221> NAME/KEY: VARIANT
1345 <222> LOCATION: (18)...(18)
1346 <223> OTHER INFORMATION: Xaa = Asn, Asp, Gln, Thr, Ala, or His
1348 <221> NAME/KEY: VARIANT
1349 <222> LOCATION: (24)...(24)
1350 <223> OTHER INFORMATION: Xaa = Arg, Lys, Asn, Ala, Ile, Met, or Trp
1352 <400> SEQUENCE: 77
1353 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa
1354 1 5 10 15
1355 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1356 20
2927 <210> SEQ ID NO: 166
2928 <211> LENGTH: 20
2929 <212> TYPE: PRT
2930 <213> ORGANISM: Artificial Sequence
2932 <220> FEATURE:
2933 <223> OTHER INFORMATION: purified polypeptide
2935 <221> NAME/KEY: VARIANT
2936 <222> LOCATION: 1, 9
2937 <223> OTHER INFORMATION: Xaa = Phe or Tyr
2939 <221> NAME/KEY: VARIANT
2940 <222> LOCATION: 2, 6-8, 10, 12, 16
2941 <223> OTHER INFORMATION: Xaa = any amino acid
2943 <221> NAME/KEY: VARIANT
2944 <222> LOCATION: 4
2945 <223> OTHER INFORMATION: Xaa = any amino acid; 2-5 amino acids in length
2947 <221> NAME/KEY: VARIANT
2948 <222> LOCATION: 15
2949 <223> OTHER INFORMATION: Xaa = hydrophobic residue
2951 <221> NAME/KEY: VARIANT
2952 <222> LOCATION: 19
2953 <223> OTHER INFORMATION: Xaa = any amino acid; 3-5 amino acids in length
2955 <400> SEQUENCE: 166
W--> 2956 Xaa Xaa Cys Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa Ser His Xaa Xaa
2957 1 5 10 15
W--> 2958 Arg His Xaa His
2959 20
E--> 2963 (1)

*variable length is not permitted -
see item 6 on Error summary
sheet*

*same
error*

delete at end of file

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/785,632

DATE: 03/12/2001
TIME: 12:50:57

Input Set : A:\12279-002001.TXT
Output Set: N:\CRF3\03122001\I785632.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:1152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1320 M:252 E: No. of Seq. differs, <211>LENGTH:Input:24 Found:1 SEQ:77
L:1353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:0
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:0
L:1377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
L:1482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
L:1520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:1535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:1772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108
L:1787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:2412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150
L:2414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150
L:2446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151
L:2448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151
L:2480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152
L:2482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152
L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153
L:2516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153
L:2548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154
L:2550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154
L:2582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155
L:2584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155
L:2616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156
L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156
L:2650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157
L:2652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/785,632

DATE: 03/12/2001
TIME: 12:50:57

Input Set : A:\12279-002001.TXT
Output Set: N:\CRF3\03122001\I785632.raw

L:2684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158
L:2686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158
L:2718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159
L:2720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159
L:2752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160
L:2963 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:166